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Chief, Hawaii Bureau

15 June 1948

Chief, FBI

Equipment Installation and Related Matters

1. It is requested that the radio engineer at your station accomplish the following projects as soon as practicable with a view to improvement of the Kauai station's technical setup:

- a. Install matching transformers, concentric cables, antenna multicouplers, and concentric cable patching system for selecting antennas for the various receivers. Equipment per requisition 48-2853, dated 1 October 1947 and 48-2500, dated 26 September 1947 was intended for this project. Matching transformers for the two distant rhombics were to be installed on the near pole supporting the two Tokyo rhombics. The transformers would match the 200 ohm, 4-wire, open wire lines to 75 ohm RG-12/U cables at this point.
- b. Install the special medium wave multicoupler of requisition #48-2318 for the Beverage wave antenna. Conduct tests on its operation over the broadcast band and report results to the Washington office.
- c. Make a test of the Boehme high speed undulating tape recording set now at Kauai. Requisition parts and equipment to place this set in operation so that it may be used in sampling and recording the high speed code transmissions heard at Kauai from the Far East.

2. The new Dictaphone Electronic plastic belt recording and reproducing equipment will soon be on its way to Kauai. When this is received, it will replace the old wax cylinder recording and transcribing equipment. The new recorders have a built in compression amplifier, which will replace the old amplifiers now used in the monitoring booths. The new transcriber is also an electronic device. It comes with a pair of Telex stethoscopic earphones and a foot control. It has its own built in reproducing amplifier. Fifteen of the transcribers have been ordered for Kauai.

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